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CLEARINGHOUSE
FOR FEDERAL SCIENTIFIC AND TECHNICAL INFORMATION
An agency of the U.S. Department of Commerce

April 15, 1965 Volume 13, Number 7

TECHNICAL TRANSLATIONS

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PURPOSE

Technical Translations announces to the public the availability and provides order information for translated scientific and technical reports, periodicals and books. Although most of the literature has been translated into English, some is in other Western European languages. The language of the translation, if other than English, is noted in the citation. Most of the material is of Soviet origin, but works from Eastern and Western European countries and from the Orient, especially Japan and Communist China, are also cited. In order to avoid duplication of effort, translations in process are also announced.

FORMAT

This journal is separated into five sections:

(1) Bibliographic citations are listed alphabetically by author or title under broad subject headings.

(2) Book Reviews of translated scientific and technical literature are listed.

(3) Translations in Progress: lists titles of translations being prepared by government and private sources. All Special Foreign Currency Science Information (SFCSI) Program translations are listed (formerly PL 480 Program).

(4) Translated Periodicals: "Periodicals Translated Cover-To-Cover" lists titles of approximately 190 technical and scientific periodicals regularly translated into English. "Tables of Contents of Recently Translated Journal Issues" are included; they are preceded by a list of the foreign titles of the journals from which they are taken.

(5) Indexes: three indexes are arranged by author, journal and translation number.

HOW TO ORDER

Each bibliographic entry contains the acronym or initials of the agency from which the translation is to be ordered; these are keyed to the complete list of ordering addresses preceding the first section. Order by the title and number given in the citation. Translations available from the Clearinghouse (CFSTI) often have alternative prices cited as hard copy (HC) and microfiche copy (MF). Make check or money order payable to agency indicated. Most of the literature is available from the Clearinghouse, the Special Libraries Association Translations center (SLA), or the European Translations Centre (ETC).

REFERENCE SERVICE

Reference services for the location and identification of translated materials, completed or in process, are provided by the Clearinghouse, Special Libraries Association Translations Center, and the European Translations Centre. Mailing addresses are listed in the pages headed "How To Order Translations."

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John T. Connor, Secretary

CLEARINGHOUSE FOR FEDERAL SCIENTIFIC AND TECHNICAL INFORMATION
Springfield, Va. 22151
Bernard M. Fry, Director

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U. S. Government Research and Development Reports, the Clearinghouse domestic reports announcement journal, has seen a number of changes during the past year, including an addition to its name. New forms of technical material have been announced in an effort to make USGRDR a comprehensive catalog of Government-sponsored research. "Research Highlights," a new section in USGRDR, represents an increasing effort to select out of the wealth of material collected by the Clearinghouse the reports that should prove of most practical value to the industrial community.

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Bernard M. Fry

Bernard M. Fry
Director

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HOW TO ORDER TRANSLATIONS

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The translations reported in this issue are arranged under the categories indicated in the Contents. The sub-groups of the categories are flexible and used only when there are several translations in a particular sub-group. When the subject of a sub-group is not included in the Contents, reference should be made to the general category into which it falls.

References to sources of original text are given as they appear on the translation, with sufficient editing to assure uniformity in citations.

Some of the translation notes for individual translations have been marked with the symbol (#) preceding the name of the journal. This symbol indicates that the particular journal is also translated cover-to-cover.

Listed below are agencies from which translations may be purchased. Each entry in the Technical Translations indicates by symbol the agency from which the translation should be ordered, the cost of the translation (if known), and the number by which the translation may be ordered, if such a number exists. Make check or money order payable to the agency indicated.

SYMBOLS FOR SOURCES OF TRANSLATIONS

AC
A. Capelo
P. O. Box 46354
Hollywood, California 90046

AGI
AGI Translations Office
American Geological Institute
1444 N Street, N. W.
Washington, D. C. 20005

AGS
American Geographical Society
Broadway at 156th Street
New York, New York 10032

AGU
American Geophysical Union
Suite 506, 1145 19th Street, N. W.
Washington, D. C. 20036

AIAA
American Institute of Aeronautics & Astronautics
500 Fifth Avenue
New York, New York 10036

AIBS
American Institute of Biological Sciences
2000 P Street, N. W.
Washington, D. C. 20006

AIP
American Institute of Physics
335 East 45th Street
New York, New York 10017

AIS
Argus Information Service
624 N. Eutaw Street
Baltimore, Maryland 21201

AM
Acta Metallurgica
122 East 55th Street
New York, New York 10022

AMS
American Mathematical Society
190 Hope Street
Providence, Rhode Island 02906

ANSP
Academy of Natural Sciences of Philadelphia
19th St. & The Parkway
Philadelphia, Pennsylvania 19103

API
Academic Press, Inc.
111 Fifth Avenue
New York, New York 10003

ARS
American Rocket Society, Inc.
20th & Northampton Streets
Easton, Pennsylvania 18042

ATS
Associated Technical Services, Inc.
P. O. Box 271
East Orange, New Jersey 07017

BGIRA
British Glass Industry Research Association
Northumberland Road
Sheffield 10, England

BIHR
Circulation Manager
Translations of the Beltone Institute for Hearing Research
2900 West 36th Street
Chicago, Illinois 60632

BISI
British Iron & Steel Industry Translation Service
The Iron & Steel Institute
4, Grosvenor Gardens
London, S. W. 1, England

BWRA
British Welding Research Association
Abington Hall, Abington
Cambridge, England

CB
Consultants Bureau Enterprises, Inc.
227 West 17th Street
New York, New York 10011

CBT
Centre Belge de Traductions
Bibliotheque Royale
4 Boulevard de l'Empereur
Brussels, Belgium

CCT
Consultants Custom Translations Inc.
227 West 17th Street
New York, New York 10011

CFSTI
Clearinghouse for Federal Scientific & Technical Information (Formerly Office of Technical Services)
Port Royal & Braddock Roads
Springfield, Virginia 22151
(Also available through Department of Commerce Field Offices)

CHP
Cleaver-Hume Press, Ltd.
31, Wright's Lane
London, W. 8, England

CID
Centro de Informacion y Documentacion,
Patronato Juan de la Cierva,
Serrano 150, Apartado 743
Madrid 6, Spain

CIDNT
Centralny Instytut Dokumentacji Naukowo-Technicznej
Warszawa 12
Aleja Niepodleglosci 188
Poland

CNP
Comitato Nazionale per la Produttivita
Service d'Information
Viale Regina Margherita N. 83D
Rome, Italy

CNRS
Centre National de la Recherche Scientifique
Centre de Documentation
15 Quai Anatole France
Paris 7, France

CSIR
Council for Scientific and Industrial Research
The Head
Information Division
P. O. Box 395
Pretoria, Republic of South Africa

CSIRO
Commonwealth Scientific & Industrial Research Organization
Information Service
314 Albert Street
East Melbourne C. 2, Victoria
Australia

CTRA
The Librarian
The Coal Tar Research Association
Oxford Road
Gomersal, Leeds, England

CTS (Chem)
Chemical Translating Service
2243 Greer Road
Palo Alto, California 94300

CTT
Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DI
Circulation Unit
Department of the Interior
Central Library
Room 1149
Washington, D. C. 20240

DTC
Danish Translations Centre,
c/o Library of the Danish Atomic Energy Commission,
Riso. Roskilde, Denmark

EIS
Engineering Information Services
Kirkham, Preston, Lancashire,
England

ES
Erica Stux
584 Moreley Avenue
Akron, Ohio 44320

ETC
European Translations Centre
Doelenstraat 101, Delft,
The Netherlands

ETH
Eidgenossische Technische Hochschule
Zurich, Switzerland

ETHB
Eidgenossische Technische Hochschulbibliotek
Leonhardstrasse 33
Zurich, Switzerland

EURO-T. S.
Euro-Translation Service
20 Rue Europe
Grivegnée (Liège), Belgium

FASEB
Federation of American Societies for Experimental Biology
9650 Wisconsin Avenue
Washington, D. C. 20014

FRI
Fulmer Research Institute, Ltd.
Stoke Poges,
Buckinghamshire, England

FT
Faraday Translations
15 Park Row
New York, New York 10038

GB
Gordon and Breach
Publishers, Inc.
150 Fifth Avenue
New York, New York 10011

GPO
Superintendent of Documents
Government Printing Office
Washington, D. C. 20402

GPRC
Geophysical & Polar Research Center
6021 S. Highland Road
Madison, Wisconsin 53706

HB
Henry Brutcher
P. O. Box 157
Altadena, California 91001

HMSO
Her Majesty's Stationery Office
P. O. B. 569
London, S. E. 1, England

HTCBN
Hungarian Trading Company for Books & Newspapers "Kultura"
Budapest 62, P. O. Box 149

ICE
International Chemical Engineering
345 East 47th Street
New York, New York 10017

IEEE
Institute of Electrical & Electronics Engineers
275 Madison Avenue
New York, New York 10016

INFOSERV
Infoserv
P. O. Box 217
West Hartford, Connecticut
06097

INT
International Patent Service N. V.
P. O. Box 101
's-Hertogenbosch,
The Netherlands

IP
Interscience Publishers, Inc.
250 Fifth Avenue
New York, New York 10001

IPST
Israel Program for Scientific Translation
Kiryat Moshe
P. O. Box 7145
Jerusalem, Israel

ISA
Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

K-H
Kresge-Hooker Science Library Associates
Wayne State University
Detroit, Michigan 48202

LAND-AIR
Land-Air, Inc.
Pacific Missile Range
Point Mugu, California 95468

LC
Photoduplication Service
Publication Board Project
Library of Congress
Washington, D. C. 20540

LNEC
Laboratorio Nacional de Engenharia Civil
Ministerio das Obras Publicas
Avenida do Brasil
Lisbon 5, Portugal

LSA
Literature Service Associates
Route 1
Bound Brook, New Jersey 08805

MACL
Maclaren and Sons, Ltd.
Maclaren House
131 Great Suffolk Street
London, S.E. 1, England

MACM
Macmillan Co.
60 Fifth Avenue
New York, New York 10011

MDF
Morris D. Friedman
7553 Waterford Drive
San Jose, California 95129

MPIK
Max-Planck-Institut fur Kohlenforschung
Bibliothek der Abteilung Strahlenchemie Stiftstrasse 34-36
433 Mulheim and der Ruhr,
West Germany

MT
M. de O. Tollemache
Pennyford Cottage,
Burrington,
Umberleigh, Devon, England

MUL
Mulholland Engineering Translations
26 Burton Woods Lane
Cincinnati, Ohio 45229

NASA
National Aeronautics and Space Administration
1520 H Street, N. W.
Washington, D. C. 20546

NLL
National Lending Library for Science and Technology
Boston Spa, Yorkshire, England

NRCC
National Research Council, Library
Ottawa 2, Canada

OB
Oliver & Boyd, Ltd.
Tweeddale Court
14 High Street
Edinburgh 1, Scotland

OSA
Optical Society of America, Inc.
33 University Road
Cambridge, Massachusetts 02138

PERA
The Information Manager
Production Engineering Research Association
Melton Mowbray
Leicestershire, England

PLP
Plenum Press, Inc.
227 West 17th Street
New York, New York 10011

PP
Pergamon Press
122 East 55th Street
New York, New York 10022

PS
Primary Sources
11 Bleecker Street
New York, New York 10012

RIA
Research International Associates
1522 Connecticut Avenue, N. W.
Washington, D. C. 20006

RIS
Research Information Service
Div. of Maxwell Scientific International, Inc.
122 East 55th Street
New York, New York 10022

RIS
Research Information Service
Div. of Pergamon International Corp.
122 East 55th Street
New York, New York 10022

SA
Seizaburo Aoki
Japanese Language Translation Service
15/2027 Chogo
Fujisawa, Japan

SIAM
Business Manager
SIAM Publications
Box 7541
Philadelphia, Pennsylvania 19100

SIC
Scientific Information Consultants Limited
661 Finchley Road
London N. W. 2, England

SLA
SLA Translations Center
The John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

ST
Scripta Technica, Inc.
1000 Vermont Avenue, N. W.
Washington, D. C. 20005

STC
Swedish Translation Centre
Kunglige Tekniske Hogskolans Bibliotek
Stockholm, Sweden

STS
Scientific Translation Service
1938 Verdugo Knolls Drive
Glendale, California 91200

STT
SCIENTECH, Scientific &
Technical Translations
P. O. Box 3530
Cleveland, Ohio 44118

TC
Trans-Chem
Chemical Translation Service
1216 Oakdale, S. E.
Knoxville, Tennessee 37914

TDL
Mr. John Wiley
Technical Development
Laboratories
P. O. Box 769
Savannah, Georgia 31400

TF
Taylor and Francis Ltd.
Red Lion Court, Fleet Street,
London, E.C. 4, England

TIB
Technische
Informationsbibliothek
Am Welfengarten 1,
Hannover, West Germany

TIC
Technical Information Company
Patents Department
Chancery House
Chancery Lane
London, W.C. 2, England

TTIS
Translation and Technical
Information Services
32 Manaton Road
London, S.E. 15, England

UBO
Royal University Library
Drammensveien 42B
Oslo, Norway

WBI
Warren Birkenhead, Inc.
901 Northern Life Tower
Seattle, Washington 98101
or
No. 25, 2-Chome, Shiba
Hamamatsu-Cho
Minato-Ku, Tokyo, Japan

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Clearinghouse for Federal Scientific and Technical Information
Formerly Office of Technical Services
Springfield, Va. 22151

TECHNICAL TRANSLATIONS

Volume 13, Number 7 Pages 557 - 632 April 15, 1965

AGRICULTURE

COMBATTING PESTS. 2p.
Order from SLA $1.10 TT-64-30452

Trans. of German patent 876, 334, by Deutsche Hydrierwerke A. G., Dusseldorf, granted 11 May 53, in force as of 10 June 44.

COMBATTING PESTS. 2p.
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Trans. of German patent 885, 174, by Deutsche Hydrierwerke A. G., Dusseldorf, granted 3 Aug 53, in force as of 10 June 44.

EAST EUROPEAN AGRICULTURE, FORESTRY, AND FOOD INDUSTRIES: TRANSLATIONS NO. 300. 8 Oct 64 [140p] JPRS: 26799.
Order from CFSTI or ETC HC $4.00, MF $1.00 TT-64-51056

Consists of 13 articles from Mar-Sep 64 issues of Bulgarian, Hungarian, Rumanian, and Yugoslavian journals.

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SOVIET AGRICULTURE: TRANSLATIONS NO. 38. 8 Oct 64 [26p] JPRS: 26791.
Order from CFSTI or ETC HC $1.00, MF $0.50 TT-64-51048

Trans. of 4 selected articles from Jul-Aug 64 issues of 2 Russian journals and newspapers.

Dragos, Toma and Stefanescu, M.
AGRICULTURAL RESEARCH IN RUMANIA: THE RESEARCH INSTITUTE FOR MECHANIZATION OF AGRICULTURE [AND] THE RESEARCH INSTITUTE FOR ANIMAL HUSBANDRY. 5 Oct 64, 9p JPRS: 26704.
Order from CFSTI or ETC HC $1.00, MF $0.50 TT-64-41961

Trans. from Viata Economica (Rumania) 1964, no. 33, 14 Aug, p. 8.

Ivanov, V.
AGROCHEMICAL STATION. 26 Jan 65 [11p] FTD-TT-64-957.
Order from CFSTI or ETC HC $1.00, MF $0.50 AD-611 054

Unedited rough draft trans. of Sel'skokhozyaistvennoe Proizvodstvo Sibiri i Dal'nego Vostoka (USSR) 1964, no. 5, p. 3-6.

Lotarev, V. A.
ON CHANGES IN THE MORPHOLOGICAL FORMS OF BABESIELLA BOVIS IN THE PERIPHERAL BLOOD OF CATTLE (K Voprosu ob Izmeneniyakh Morfologicheskikh Form Babesiella Bovis v Periphericheskoi Krovi Krupnogo Rogatogo Skota). Dec 64 [26p] 23refs RTS 2556.
Order from CFSTI or ETC HC $2.00, MF $0.50 TT-65-60932

Trans. of Akademi[ya] Nauk SSSR. Karel'sk[ii] Filial, [Petrozavodsk]. Trudy, 1959, v. 14, p. 14-32.

Mocsy, Janos.
ANNUAL REPORT OF THE LEADERSHIP OF THE DEPARTMENT OF AGRICULTURAL SCIENCES. East European Agriculture, Forestry and Food Industries: Translations no. 312. 2 Nov 64, 39p JPRS: 27179.
Order from CFSTI or ETC HC $2.00, MF $0.50 TT-64-51435

Trans. of Magyar Tudomanyos Akademia Agrartudomanyok Osztalyanak Kozlemenyei (Hungary) 1964, v. 23, no. 3/4, p. 267-302.

Putrya, A., Chirkov, V., Filinskii, V., and Karpenko, S. O.
THE USE OF MOTOR VEHICLES IN AGRICULTURE; PRODUCTION OF THE "T-40" TRACTOR; THE BELOGOR'YE HARVESTER; NEW T-50V TRACTOR. USSR Industrial Development: Soviet Tractors and Agricultural Machinery no. 147. 30 Oct 64, 20p JPRS: 27156.
Order from CFSTI or ETC HC $1.00, MF $0.50
TT-64-51412

Trans. of Mekhanizatsiya Sil's'koho Hospodarstva (USSR) 1964 [v. 15] no. 3, p. 32; Za Rulem (USSR) 1964 [v. 22] no. 8, p. 4-5; from Izvestiya (USSR) 1964, 19 Jul, p. 2; Trud, Moscow (USSR) 1964, 18 Jun, p. 2.

T'ien, P'ing.
KIANGSI DEVELOPS INDUSTRIAL-AGRICULTURAL ENTERPRISES [AND] GREAT CHANGES IN HANDICRAFT INDUSTRY IN THE PAST FIFTEEN YEARS. Communist China's Industry and Materials: Translations No. 15. 24 Nov 64 [14p] JPRS: 27518.
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TT-64-51767

Trans. of Jen Min Jih Pao (Chinese People's Republic) 1964, 22 Oct, p. 2; Ta Kung Pao (Chinese People's Republic) 1964, 9 Oct, p. 2.

Plant Cultivation

AGENT AND METHOD FOR THE TREATING OF PLANTS. 17p.
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Trans. of German patent 898, 308, by Sharples Chemicals, Inc., 30 Nov 53.

AGENT TO COMBAT WEEDS. 5p.
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Trans. of German patent 830, 431, by Henkel & Cie., G.m.b.H., granted 4 Feb 52, in force as of 23 Nov 48.

INSECTICIDES AND FUNGICIDES. 2p.
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Trans. of German patent 834, 152, by Glubus-Werke Fritz Schulz jun, granted 17 Mar 52, in force as of 6 June 50.

PROCESS FOR THE PRODUCTION OF A PEST COMBATTING AGENT. 3p.
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Trans. of German patent 857, 604, by Chemische Werke Albert, Wiesbaden-Biebrich, granted 1 Dec 52.

WEED KILLERS. 5p 2refs.
Order from SLA $1.10 TT-64-30474

Trans. of German patent 924, 057, by U. S. Rubber Co., 26 Apr 56.

Auhagen, Ernst and Wehnelt, Bruno.
PROMOTION OF PLANT GROWTH. 4p 3refs
Order from SLA $1.10 TT-64-30426

Trans. of German patent 747, 961, cl 16, gr 15, appl. I 69, 557 IVb/16, granted 16 Mar 44, pub 23 Oct 44, in force as of 9 May 41.

Eijk, Willem ven.
METHOD FOR THE PREPARATION OF A FUNGICIDE PESTICIDE, CONTAINING SALICYLANILIDE. 5p.
Order from SLA $1.10 TT-64-30430

Trans. of German patent 808, 991, by Nederlandse Central Organisatie voor Togepast-Natuurwetenschappelijk Onderzoek (Appl. Nat. Sci. Research) granted 23 July 51, in force as of 22 Oct 49 (Priority: Holland 22 Aug 45).

Shain, S. S. and Nikolaev, G. V.
CERTAIN FEATURES OF THE ROOT NUTRITION OF PLANTS (Nekotorye Osobennosti Kornevogo Pitaniya Rastenii). Dec 64 [13p] RTS 2586.
Order from CFSTI or ETC HC $1.00, MF $0.50
TT-65-60938

Trans. of Kukuruza (USSR) 1962 [v. 7] no. 1, p. 43-45.

Vulkov, Dimitur.
POMICULTURE, 1939-63. East European Agriculture, Forestry, and Food Industries: Translations no. 313. 2 Nov 64, 7p JPRS: 27183.
Order from CFSTI or ETC HC $1.00, MF $0.50
TT-64-51438

Trans. of Ovoshtarstvo (Bulgaria) 1964 [v. 11] no. 9, p. 8-11.

Weber, Anton Philip.
PROCESS FOR COMBATTING ORGANISMS HARMFUL TO PLANTS, ESPECIALLY THE GERM OF THE POTATO DISEASE, AND PREPARATION SUITABLE FOR CARRYING OUT THIS PROCESS. 4p.
Order from SLA $1.10 TT-64-30468

Trans. of German patent 899, 435, granted 10 Dec 53, in force as of 22 Aug 51 (Priority: Holland, 22 Aug 50).

Wehnelt, Bruno, Wegler, Richard, Lober, Friedrich, Erlenbach, Michael, Scherer, Otto, and Staudermann, Wilhelm.
CONTROL OF PLANT VEGETATION. 3p.
Order from SLA $1.10 TT-64-30447

Trans. of German patent 860,639, cl 16, gr 15, appl. F 3939 IVb/16, by Farbwerk Höchst, vormals Meister Lucius & Bruning, Frankfurt/M.-Höchst, filed 24 Apr 52, granted 6 Nov 52, pub. 22 Dec 52, in force as of 19 May 44.

ASTRONOMY

Agapov, E. S., Anisimov, V. F., Nikonov, V. B., Prokof'eva, V. V., and Sinenok, S. M.
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M. J. Youhotsky, tr. [9p] B.S.R.A. Trans. no. 1690.
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REVERSING CHARACTERISTICS OF MOTOR SHIPS WITH FIXED PITCH AND CONTROLLABLE PITCH PROPELLERS (Reversnye Kachestva Teplokhkdov s Vintami Fiksirovannogo i Reguliruemogo Shaga) 12p 10refs B. S. R. A. Trans. no. 1828.
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Nogid, L. M.
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FOOD, HANDLING, AND PACKAGING EQUIPMENT

COMMUNIST CHINA'S FOOD AND AGRICULTURE: TRANSLATIONS NO. 15. 25 Nov 64 [24p] JPRS: 27530.
Order from CFSTI or ETC HC $1.00, MF $0.50
TT-64-51779

Trans. of 4 selected articles from Oct 64 issues of 3 Communist Chinese journals and newspapers.

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THE EFFECT OF THE STATE OF FISH AFTER DEATH ON THEIR QUALITY AFTER FREEZING AND DEFROSTING (O Vliyanii Posmentnogo Sostoyaniya Ryby na Ee Kachestvo Posle Zamorazhivaniya i Defrostatsii) Nov 64 [21p] 35refs RTS 2631.
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Order from TC $5.50 TC-512

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MACHINERY, FABRICATION, AND ACCESSORY EQUIPMENT

PUBLIC INSPECTION AT THE RYAZAN' MACHINE-TOOL BUILDING PLANT; BUREAUCRACY AND INACTION DELAY INTRODUCTION OF NEW INVENTIONS; CONFERENCE ON TECHNIQUES AND AUTOMATION OF COLD PRESSING. USSR Industrial Development: Soviet Metalworking Equipment No. 123. 27 Nov 64 [13p] JPRS: 27566.
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TT-64-51814

Trans. of 3 selected articles from May-Aug 64 issues of 3 Russian journals.

USSR INDUSTRIAL DEVELOPMENT: GENERAL INFORMATION ON SOVIET MACHINERY INDUSTRIES NO. 28. 1 Sep 64, 12p JPRS: 26206.
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USSR INDUSTRIAL DEVELOPMENT: SOVIET METALWORKING EQUIPMENT NO. 122. 25 Nov 64 [26p] JPRS: 27531.
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Trans. of 12 Selected articles from Oct 64 issues of 7 Russian journals and newspapers.

USSR INDUSTRIAL DEVELOPMENT: SOVIET PRECISION EQUIPMENT NO. 134. 28 Aug 64, 20p JPRS: 26188.
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Consists of 11 articles from May-Jul 64 issues of Russian journals and newspapers.

Separate entries have been prepared for 2 articles.

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Krekeler, K. A.
CUTTING POWER OF CAST AND HOT-WORKED HIGH-SPEED STEEL TOOLS AND THEIR METALLURGY. Jan 65.
Order from BISI £7 10s BISI-3986

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U. S. DEPARTMENT OF COMMERCE FIELD OFFICES
PROVIDE READY ACCESS TO COMMERCE SERVICES

• The Department of Commerce maintains Field Offices in the cities listed below for the purpose of providing ready access to the reports, publications, and services of the Business and Defense Services Administration, Bureau of International Commerce, Clearinghouse for Federal Scientific and Technical Information, Office of Business Economics, and the Bureau of the Census. Information on activities of the National Bureau of Standards, Patent Office, and the Area Redevelopment Administration is also available.

• Experienced personnel will gladly assist in the solution of specific problems, explain the scope and meaning of regulations administered by the Department, and provide practical assistance in the broad field of domestic and foreign commerce. Field offices act as official sales agents of the Superintendent of Documents and stock a wide range of official Government publications relating to business. Each office maintains an extensive business reference library containing periodicals, directories, publications, and reports from official as well as private sources.

• Approximately 600 Chambers of Commerce, Manufacturers Associations, and similar business groups are official Cooperative Offices of the Department where many of the basic publications and reports of the Department are on file and available for consultation. If specific information is not on hand in the Cooperative Office, your problem will be referred to the nearest Department field office.

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Detailed Agricultural Data on County Basis
Retail, Wholesale and Service Business
Estimates on Population Movements
National Income Statistics
Regional Trends in United States Economy
Biennial Volume on Business Statistics
Current Releases and Business Indicators
Research Sources on Market Potentials
Development and Maintenance of Markets
Reports on Governmental and Private Technical Research
Regional and Community Development Techniques
Information on Government Procurement, Sales and Contracts

FOREIGN TRADE

Tariff Rates of Foreign Countries on Specific American Products
Regulations Bearing on the Control of Exchange Abroad
Administration of Regulations Imposing Import Quotas and the Details of Import Licensing Procedures in Overseas Markets
Facts on Economic and Trade Conditions
Business Information on Foreign Firms
Documentation of Export and Import Shipments, Both Here and Abroad
Statistical Data on Both Imported and Exported Products
Assistance on Export Regulations and Problems, Including Prompt Special Service in Emergency Situations
Trade Investment and Licensing Opportunities
Foreign Lists of Buyers and Suppliers

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Baltimore, Md., 21202, 305 U.S. Customhouse, Gay and Lombard Streets. Phone: PLaza 2-8460.
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Charleston, S.C., 29401, No. 4, North Atlantic Wharf. Phone: 722-6551.
Charleston, W. Va., 25301, 3002 New Federal Office Building, 500 Quarrier Street. Phone: 343-6196.
Cheyenne, Wyo., 82001, 207 Majestic Bldg., 16th & Capitol Ave. Phone: 634-5920.
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Cleveland, Ohio, 44101, 4th Floor, Federal Reserve Bank Bldg., East 6th St. & Superior Ave. 241-7900.
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Denver, Colo., 80202, 142 New Custom House, 19th & Stout Street. Phone: 297-3246.
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Detroit, Mich., 48226, 445 Federal Bldg. 226-6088.
Greensboro, N.C., 27402, Room 412, U. S. Post Office Building. 275-9111.
Hartford, Conn., 06103, 18 Asylum St. Phone: 244-3530.
Honolulu, Hawaii, 96813, 202 International Savings Bldg., 1022 Bethel Street. Phone: 588667.
Houston, Tex., 77002, 5102 Federal Bldg., 515 Rusk Ave. CA 8-0611.
Jacksonville, Fla., 32202, 512 Greenleaf Building, 208 Laura Street. ELgin 4-7111.
Kansas City, Mo., 64106, Room 2011, 911 Walnut Street. BAltimore 1-7000.
Los Angeles, Calif., 90015, Room 450, Western Pacific Building, 1031 S. Broadway. 688-2833.
Memphis, Tenn., 38103, 345 Federal Office Building, 167 N. Main Street. Phone: 534-3214.
Miami, Fla., 33130, 1628 Federal Office Bldg., 51 S.W. First Avenue. Phone: 350-5267.
Milwaukee, Wis., 53203, Straus Bldg., 238 W. Wisconsin Avenue. Phone: BR 2-8600.
Minneapolis, Minn., 55401, Room 304, Federal Bldg., 110 South Fourth Street. Phone: 334-2133.
New Orleans, La., 70130, 909 Federal Office Building (South), 610 South Street. Phone: 527-6546.
New York, N. Y., 10001, 61st Fl., Empire State Bldg., 350 Fifth Avenue. LOngacre 3-3377.
Philadelphia, Pa., 19107, Jefferson Building, 1015 Chestnut Street. 597-2850.
Phoenix, Ariz., 85025, New Federal Bldg., 230 N. First Avenue. Phone: 261-3285.
Pittsburgh, Pa., 15219, Room 2201, Federal Building, 1000 Liberty Avenue. Phone: 644-2850.
Portland, Oreg., 97204, 217 Old U. S. Courthouse, 520 S. W. Morrison Street. 226-3361.
Reno, Nev., 89502, Room 2028, 300 Booth Street. Phone: 784-5203.
Richmond, Va., 23240, 2105 Federal Building, 400 North 8th Street. Phone: 649-3611.
St. Louis, Mo., 63103, 2511 Federal Building, 1520 Market Street. MAin 2-4243.
Salt Lake City, Utah, 84111, 3235 Federal Building, 125 South State Street. 524-5116.
San Francisco, Calif., 94102, Federal Building, Box 36013. 450 Golden Gate Avenue. Phone: 556-5864.
Santurce, Puerto Rico, 00907, Room 628, 605 Condado Avenue. Phone: 723-4640.
Savannah, Ga., 31402, 235 U. S. Courthouse and Post Office Bldg., 125-29 Bull Street. 232-4321.
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